

CLAIMS

1. Device for closing the rear flap in a self-dimensioning machine for closing the upper flaps of parallelepiped boxes of the type comprising a base with support surface for the boxes, a couple of drive belts that can be
5 motorised placed at the two sides of said support surface and that can be brought close to each other to make a drive engagement with the sides of the boxes, a head above said support surface, that carries devices for closing the front, rear and side flaps of the boxes and can be commanded to descend from a rest position to engage the above-mentioned devices with the upper
10 flaps of the boxes and provide for closing them, and means for detecting the position and the dimensions of the boxes for the automatic command of the movements of the machine , characterised in that it comprises a rod for straightening the rear flap, that is pivoted on said head and can be commanded to rotate from a substantially horizontal rest position to a
15 vertical working position and to translate in the same feed direction of the box to carry out the straightening of the rear flap, a vertically mobile touching group that can be commanded to descend towards said support surface up to a position depending on the height of the box and a lever pivoted on said touching group downstream from said straightening rod and
20 flexibly kept in an angular position suitable for meeting its inclined surface, during the descent of the touching group, the straightened rear flap and thus to cause the movement of the flap in closing position.

2. Device according to claim 1, characterised in that said head is fitted with means for detecting the height of the boxes in input with flaps open and
25 with means for positioning it at a height corresponding to that of the height detected by said detecting means.

3. Device according to claim 1, characterised in that said lever is flexibly kept in said angular position by a pneumatic cylinder.

4. Device according to claim 3, characterised in that said lever is L-
30 shaped with a first arm forming said inclined surface and a second arm

connected to said pneumatic cylinder.